**Science Home Learning**

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| **Lesson 3 – Magnetism Revision** | |
| **Year: 11** | **Topic: Physics** |
| **Unit: Magnetism & Electromagnetism** | **Date Set:** |
| Information to read/watch:  Oak Academy:  <https://classroom.thenational.academy/units/electricity-and-magnetism-ab64>  Seneca:  <https://app.senecalearning.com/classroom/course/fe56ca00-05aa-11e8-9a61-01927559cfd5/section/0fe18250-05ca-11e8-a9c0-bbcf210a0d3d/session>          Tasks:   1. What is produced when a current flows through a conducting wire? 2. Name two factors which will impact on your answer to question 1. 3. What is a solenoid? 4. Describe the magnetic field inside a solenoid. 5. State three ways of increasing the strength of the magnetic field produced by a solenoid. 6. Draw the magnetic field pattern produced by a solenoid. 7. What is an electromagnet?   Additional Websites:  https://youtu.be/SCnGfE7qxHc  [Magnetism and electromagnetism - GCSE Science Revision - AQA Trilogy - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zwkww6f)  Answers:   1. What is produced when a current flows through a conducting wire?   Magnetic field.   1. Name two factors which will impact on your answer to question 1.   Current flowing through the wire, distance from the wire.   1. What is a solenoid?   Coil of wire in which a magnetic field is created by passing a current though it.   1. Describe the magnetic field inside a solenoid.   Strong and uniform.   1. State three ways of increasing the strength of the magnetic field produced by a solenoid.   Increase the current   1. Draw the magnetic field pattern produced by a solenoid.      1. What is an electromagnet?   Solenoid with an iron core. | |